

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/03/2023

(21) Application No.202341020820 A

(43) Publication Date : 07/04/2023

(54) Title of the invention : IOT BASED AUTOMATIC PADDY DRUM SEEDER MACHINE

(51) International classification :A01C 070800, G06Q 501000, H04L 273400, H04L 676300, H04W 120600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.D.R.P.RAJARATHNAM
Address of Applicant :PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU ----

2)Dr. B.VENKATESAN
3)Mr.R. KARTHICK
4)Dr.R.T. AJAYKARTHIK
5)Mr.S. MANIKANDAN
6)Mr.R. ARUNBABU
7)Mr. C.VIBINSTALIN
8)Miss. C.SUMITHRA
9)PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.D.R.P.RAJARATHNAM
Address of Applicant :PROFESSOR/HEAD, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, PACHAL -637018, NAMAKKAL, TAMILNADU ----

2)Dr. B.VENKATESAN
Address of Applicant :ASSOCIATE PROFESSOR AND HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA Rasipuram -----
3)Mr.R. KARTHICK
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
4)Dr.R.T. AJAYKARTHIK
Address of Applicant :PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
5)Mr.S. MANIKANDAN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
6)Mr.R. ARUNBABU
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
7)Mr. C.VIBINSTALIN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
8)Miss. C.SUMITHRA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
9)PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
Address of Applicant :NH-44, PACHAL - 636018, NAMAKKAL, TAMIL NADU, INDIA Rasipuram -----
10)Mr.O.ARJUN
Address of Applicant :U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
11)Mr.R.DHARANIVENTHAN
Address of Applicant :U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
12)Mr.J.MANIKANDAN
Address of Applicant :U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----
13)Mr.G.VENGADESH
Address of Applicant :U.G STUDENT/ MECHATRONICS, PAAVAI ENGINEERING COLLEGE, NAMAKKAL. Rasipuram -----

(57) Abstract :
Because the crop is planted in lines with 20 cm between rows, this method can reduce the need for labor, water, and seed while also increasing productivity. (by 7-10 days). Prior to sowing, the sprouted seed is temporarily air-dried in shade (about 30 minutes) to facilitate dispensing via the drum seeder's holes. Between 4 and 8 drums may be used, and between 8 and 16 lines may be sowed in one pass. Eight row drum seeders were used by farmers to sow paddy (20 cm x 10 cm) in a straight line. In ten hours, a hectare might be covered. Compared to broadcasting (100 kg/ha), drum seeding requires fewer seeds (30 kg/ha). And here we are using new technology to control paddy drum seeder. In this technology we can control the paddy drum seeder by Bluetooth. We don't need to pull the machine by manually because dc motor used to drive the paddy drum seeder. The main reason for this innovation is reduce the cost for paddy seeding and cultivation also, for water management.

No. of Pages : 6 No. of Claims : 5